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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,128	07/02/2003	Craig M. Wittenbrink	10991644-2	3905
75	590 10/21/2004		EXAM	INER
HEWLETT-PACKARD COMPANY			DO, ANH HONG	
Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
			2624	
			DATE MAILED: 10/21/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/612,128	WITTENBRINK ET AL.				
Office Action Summary	Examiner	Art Unit				
	ANH H DO	2624				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-4 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>02 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		-(d) or (f).				
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
•		ed in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list		d				
	or the certified copies flot receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duluk et al. (U.S. Patent No. 6,229,553) in view of the prior art described in the application (PAA) and Deering (U.S. Patent No. 5,408,605).

Regarding claim 1, Duluk discloses:

- modifying the set of setup variables by eliminating parts of the primitives from the set of setup variables (col. 20, lines 55-60, teaching culling out or removing parts of primitives from setup STP);
- bundling the modified setup variables into a packet of a corresponding predefined packet type (col. 22, lines 50-60, teaching MIJ for reconnecting the VSP packet with its color, light, and texture data (e.g., packet type)).

One skilled in the art would have clearly recognized that the setup unit in Duluk receives the sort of block output packets to facilitate the culling or discarding performed by the cull unit. Duluk does not specifically teach identifying the type of a set of setup variables and removing the type filed as claimed.

The PAA, in the same field of endeavor, teaches identifying the type of a

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set of setup variables (specification, page 2, lines 7-12). The identification would contribute to the enhancement of the system performance by culling the hidden parts of primitives to conserve disk storage (specification, page 3, lines 8-14).

And Deering, in the same field of endeavor, teaches reducing the overhead associated with the packet replacement type to conserve DMA storage (col. 8, lines 33-40).

Therefore, it would have been obvious to identify the setup variables and remove the overhead associated with the packet replacement type in Duluk as taught by the PAA and Deering in order to facilitate the culling or compression and thereby to conserve the disk storage.

Regarding claim 3, since this apparatus claim corresponds to method claim 1, the discussion of claim 1 applies hereto.

Regarding claims 2 and 4, Duluk teaches the packet comprising a header (col. 18, lines 45-47), and the modified set of setup variables in a predefined order (col. 20, lines 48-54).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H DO whose telephone number is 703-308-6720. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID K MOORE can be reached on 703-308-7452. The

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fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 15, 2004.

ANH HONG DO PRIMARY EXAMINER

Manue